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NOTICE OF ALLOWANCE AND FEE(S) DUE

22850 7590 06/04/2010

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.

1940 DUKE STREET ALEXANDRIA, VA 22314 EXAMINER
MCDONALD, RODNEY GLENN

ART LINIT PAPER NUMBER

1705

DATE MAILED: 06/04/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,451	05/26/2006	Carole Baubet	283429US0PCT	3499

TITLE OF INVENTION: DIELECTRIC-LAYER-COATED SUBSTRATE AND INSTALLATION FOR PRODUCTION THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/07/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical	form should be used I correspondence including d below or directed off tions.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a	TE FEE and PUBLIC ders and notification i) specifying a new o	CATI of n	ON FEE (if requi naintenance fees w pondence address;	ired). I /ill be and/or	Hocks 1 through 5 sh mailed to the current (b) indicating a sepa	tould be completed where correspondence address as rate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.						
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APPLICATION NO.	APPLICATION NO. FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.		CONFIRMATION NO.	
10/562,451	05/26/2006			Carole Baubet				83429US0PCT	3499	
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nonprovisional	NO	_	\$1510	\$300		\$0			09/07/2010	
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MCDONALD, RO	ODNEY GLENN		1795	204-192120		J				
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PTO/SB/47; Rev 03-0 Number is required.	ication (or "Fee Address 2 or more recent) attack	ed. Us	e of a Customer	2 registered paten listed, no name wi	t attor	rnevs or agents. If	no nam	e is 3		
3. ASSIGNEE NAME A										
PLEASE NOTE: Unl recordation as set forti	ess an assignee is ident h in 37 CFR 3.11. Comp	ified be detion	clow, no assignee of this form is NO	data will appear on t I a substitute for filin	the pa	atent. If an assign assignment.	ee is ic	entified below, the do	cument has been filed for	
(A) NAME OF ASSIG	SNEE			(B) RESIDENCE: (0	CITY	and STATE OR C	OUNT	RY)		
Please check the appropri	iate assignee category or	catego	ries (will not be pr	inted on the patent):		Individual 🚨 Co	orporati	on or other private gro	up entity 🚨 Government	
4a. The following fee(s)	are submitted:		48			se first reapply ar	ıy prev	iously paid issue fee	hown above)	
☐ Issue Fee ☐ Publication Fee (No small entity discount permitted)			νd)	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.						
Advance Order - # of Copies				The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
5. Change in Entity Stat	tus (from status indicate s SMALL ENTITY state			_				TITY status. Sec 37 CI		
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10/562,451	05/26/2006	283429US0PCT	3499		
22850 75	90 06/04/2010	EXAMINER			
OBLON, SPIVA	K, MCCLELLAND	MCDONALD, RODNEY GLENN			
1940 DUKE STRE		ART UNIT	PAPER NUMBER		
ALEXANDRIA, V	A 22314	1795			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/562,451 BAUBET ET AL. Notice of Allowability Examiner Art Unit Rodney G. McDonald 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to Amendment filed 3-3-10. The allowed claim(s) is/are 19-21,23-30 and 34. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) X All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. \(\overline{\text{Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance

/Rodney G. McDonald/ Primary Examiner, Art Unit 1795

of Biological Material

9. ☐ Other .

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Art Unit: 1795

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

This application is in condition for allowance except for the presence of claims 1-18, 31, and 32 directed to an invention nonelected without traverse. Accordingly, claims 1-18, 31 and 32 have been canceled.

The following is an examiner's statement of reasons for allowance:

Claims 19-21, 23-30 and 34 are allowable over the prior art of record because the prior art of record does not teach the claimed subject matter including depositing one or more layers on a substrate in a sputtering chamber comprising a sputtering system comprising a target, a linear ion source, and a conveying system, comprising conveying the substrate through the sputtering chamber, depositing at least one dielectric thin-film layer on the substrate by sputtering with the sputtering system comprising the target, generating at least one ion beam coming from the ion source in the sputtering chamber in the presence of the sputtering system comprising the target, and adjusting the refractive index of the dielectric layer by modifying the angle between the ion beam and the surface of the substrate and/or modifying the voltage applied to the ionic source, wherein the density of the dielectric layer deposited on the substrate is preserved.

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The closest prior art to Lerbet et al. (U.S. Pat. 5,569,362) while teaching utilizing an ion beam to change the refractive index of the film does not teach utilizing a linear ion source to adjust the refractive index of the dielectric layer by modifying the angle between the ion beam and the surface of the substrate and/or modifying the voltage applied to the ionic source, wherein the density of the dielectric layer deposited on the substrate is preserved.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney G. McDonald whose telephone number is 571-272-1340. The examiner can normally be reached on M-Th with every Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1795

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Rodney G. McDonald/ Primary Examiner, Art Unit 1795

Rodney G. McDonald Primary Examiner Art Unit 1795

RM June 1, 2010